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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/590,119	06/11/2007	Lin Zhi	3800024.00324 / 1112US	1033
77202	7590	04/15/2011		
K&L Gates LLP 3580 Carmel Mountain Road Suite 200 San Diego, CA 92130			EXAMINER CHANDRAKUMAR, NIZAL S	
			ART UNIT	PAPER NUMBER
			1625	
			MAIL DATE	DELIVERY MODE
			04/15/2011 PAPER	

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/590,119

**Applicant(s)**

ZHI ET AL.

**Examiner**

NIZAL CHANDRAKUMAR

**Art Unit**

1625

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 2/14/2011.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-25, 27-35, 62-69, 72-78 and 82-86 is/are pending in the application.
- 4a) Of the above claim(s) 69 and 72-77 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-25, 27-35, 62-68, 78 and 82-86 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-946)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB-08)  
Paper No(s)/Mail Date 9/13/2010, 1/29/2010
- 4) ☐ Interview Summary (PTO-413)  
Paper No.(s)/Mail Date: \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

Applicants response filed 2/14/2011 is acknowledged.

Claims 1-25, 27-35, 62-68, 78, 82-86 are under examination.

Applicants are reminded of the subject matter being prosecuted shown on page 4 of office action filed 11/3/2010.

Claims 1-25, 27-35, 62-68, 78, 82 are examined to the extent that they read on the elected subject matter:

CRAB. compounds of formula II wherein n is 0, Z is

**To facilitate prosecution, Applicant is encouraged to delete non-elected subject matter from the claims.**

**Response to Remarks:**

Amendments to claims overcome the previously presented rejections under Claim Rejections - 35 USC § 102, Claim Rejections - 35 USC § 103 and Claim Rejections - 35 USC § 112.

Claim 6 and 7, 28, 31-33, 84,

## New Rejections

### ***Claim Rejections - 35 USC § 102***

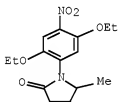
The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Sues et al.  
GB 1177545.

Sues et al. teach



RN 23196-17-0

R1 NO2

R2 heteroalkyl

RA of R3 is C2 alkyl

R4 H

R5 H

R6a and R7a together form a carbonyl

R9 C1 alkyl

R 10 H

R12 H

R13 H

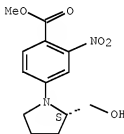
RA and RB of Z are hydrogen.

Likewise,

Claims 1-4, 8-25, 27, 30, 34, 63-68, 78, 82, 83, 85, 86 are rejected under 35

U.S.C. 102(b) as being anticipated by Yamada et al. WO 2001083460.

Yamada et al. teach RN 372117-90-3



corresponds to compounds of formula II

R1 CO<sub>2</sub>RA wherein RA is C1 alkyl

R2 is NO<sub>2</sub>

R5, R4 and R5 are Hydrogens

RA and RB are Hydrogens for CRARB

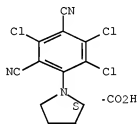
R9 is hydrogen or hydroxyalkyl (substituted alkyl)

Likewise

Claims 1-5, 8-25, 27, 30, 34, 63-68, 78, 82, 83, 85, 86 are rejected under 35

U.S.C. 102(b) as being anticipated by Sunjic et al. US 6437167.

Sunjic et al. teach RN 253867-83-3



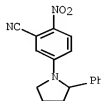
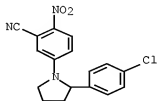
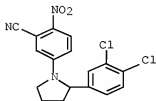
corresponds to compounds of formula II wherein R<sub>1</sub> is CN, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub> and R<sub>5</sub> are halo, RA of R<sub>9</sub> is H.

Similarly,

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Elslager et al.

Journal of Medicinal Chemistry (1972), 15(8), 827-36. (STN abstract is provider,

Original article is being procured).



R<sub>1</sub> is NO<sub>2</sub>,

R2 is CN

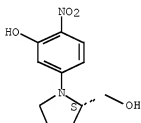
R3, R4, R5, H

R9 is optimally substituted aryl

Likewise,

Claims 1, 22, 23 are rejected under 35 U.S.C. 102(b) as being anticipated by Jin et al. Chemistry of Materials (1992), 4(5), 963-5. (STN abstract is provided, Original article is being procured).

Jin et al. teach RN 115416-47-2



### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-25, 27-35, 62-68, 78, 82-86 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 language relating to 'pharmaceutically acceptable ester, or amide thereof' is vague and indefinite, because these terms implies more than what is positively defined by variables , for example  $\text{CO}_2\text{R}^A$ ,  $\text{CONR}^A\text{R}^B$ .

Dependent claims listed above do not cure the problem of the base claims.

Additionally in claims 62 and 84, it is unclear what are the esters and amides of the first named compounds.

**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NIZAL CHANDRAKUMAR whose telephone number is (571)272-6202. The examiner can normally be reached on 8.30 AM - 4.30 PM.



If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Janet Andres can be reached on 571 0272-0867. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Nizal S Chandrakumar/  
Primary Examiner, Art Unit 1625